

<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>
	10/626,700 Examiner	OUCHI ET AL. Art Unit
	Wassem H Hamdan	2854

~ The MAILING DATE of this communication appears on the cover sheet with the correspondence address~

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1.  This communication is responsive to Examiner's Amendment filed on 09/15/2004.
2.  The allowed claim(s) is/are 1-14.
3.  The drawings filed on \_\_\_\_\_ are accepted by the Examiner.
4.  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a)  All b)  Some\* c)  None of the:
    1.  Certified copies of the priority documents have been received.
    2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3.  Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5.  A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6.  CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a)  including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1)  hereto or 2)  to Paper No./Mail Date \_\_\_\_\_.
  - (b)  including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date 09/15/2004.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7.  DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

#### Attachment(s)

1.  Notice of References Cited (PTO-892)
2.  Notice of Draftsperson's Patent Drawing Review ( PTO-948)
3.  Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date 07/23/2003
4.  Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5.  Notice of Informal Patent Application (PTO-152)
6.  Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_.
7.  Examiner's Amendment/Comment
8.  Examiner's Statement of Reasons for Allowance
9.  Other \_\_\_\_\_.

## DETAILED ACTION

### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Joel S. Armstrong (Registration No. 36,430) on 09/15/2004.

The application has been amended as follows:

- a. **Claim 11:** A period has been inserted at the end of claim 11.
- b. **Title:** the title has been replaced with – PRINTER AND PRINTING METHOD FOR OBTAINING A REMAINING PRINTABLE DISTANCE ON THE REAR END SIDE OF A PAPER --.
- c. **Drawings:** The following changes to the drawings have been approved by the examiner and agreed upon by applicant: the descriptive legend “CONTROL UNIT” will be inserted in box 70 of FIG. 5. In order to avoid abandonment of the application, applicant must make these above agreed upon drawing changes.

***Allowable Subject Matter***

***Examiner's Statement Of Reason For Allowance***

2. The following is an examiner's statement of reasons for allowance

Claims 1-14 are allowed.

Regarding claim 1, the prior art of record does not teach all the combined components and or elements for a printing apparatus including a response delay calculating unit configured to calculate a response delay time of the upstream sensor according to a difference between the first transport distance and the second the transport distance; and a correction unit configured to correct a remaining printable distance on a paper rear end side after detecting the rear end of the paper by the upstream sensor, on the basis of the response delay time.

Regarding claim 12, the prior art of record does not teach all the combined steps for a printing method in a printer, wherein the printer includes a downstream sensor capable of detecting paper, and an upstream sensor disposed upstream of the downstream sensor in a paper-transport-direction and capable of detecting the paper, including calculating a response delay time of the upstream sensor from a difference between the first transport distance and the second transport distance; and correcting a remaining printable distance on a paper rear end side after detecting the rear end of the paper by the upstream sensor, on the basis the response delay time.

Regarding claim 14, the prior art of record does not teach all the combined components and or elements for a printing, including means f or calculating a response delay time of the upstream sensor from a difference between the first transport distance and the second transport

distance; and means for correcting a remaining printable distance on a paper rear end side after detecting the rear end of the paper by the upstream sensor, on the basis of the response delay time.

***Conclusion***

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The prior art of record does not teach all the combined steps and components / elements as discussed above in the "examiner's statement of reasons for allowance".
4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Wasseem H Hamdan whose telephone number is (571) 272-2166. The examiner can normally be reached on M-F (first Friday off) 6:30 AM- 4:00 PM.  
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew H Hirshfeld can be reached on (571) 272-2168. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Wasseem H. Hamdan

September 15, 2004



ANDREW H. HIRSHFELD  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2800